WEST Search History

DATE: Wednesday, February 12, 2003

Set Name	Query	Hit Count	Set Name
side by side			result set
DB = USPT,	PGPB,JPAB,DWPI; PLUR=YES; OP=ADJ	r	
L2	L1 and IRES and coat protein	2	L2
L1	potato virus X	445	L1

END OF SEARCH HISTORY

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YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):v
                       $%^STN:HighlightOn= ***:HighlightOff=*** :
                                                                                                                                                                                                                                                                                                                                                                                                                                         L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2002:539852 CAPLUS
DN 137:89449 ***Virus*** vector containing
                        Welcome to STN International! Enter x:x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ***X*** vector containing internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ribosomal entry site elements for improved transgene expression in plants Santa-Cruz, Simon; Pogue, Gregory P.; Toth, Rachel L.; Chapman, Sean;
                        LOGINID:ssspta1633cxp
                                                                                                                                                                                                                                                                                                                                                                                                                                        IN Santa-Cruz, Simon; Pogue, Gregory P.,
Carr, Flona
PA Biosource Genetics Corporation, USA
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO.
                        PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
                   NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICOB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jun 10 PCTFULL has been reloaded
NEWS 13 Jun 10 PCTFULL has been reloaded
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 18 Aug 08 CANCERLIT reload
NEWS 19 Aug 08 PHARMAMArket Letter(PHARMAML) - new on STN
NEWS 18 Aug 08 PHARMAMARKEL etter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquaict Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 (FIPAT, IFICOB, and IFIUDB have been reloaded
NEWS 21 Aug 18 Applicate Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 22 Sep 13 JAPIO has been reloaded and enhanced
NEWS 23 Sep 13 JAPIO has been reloaded in CAPILUS and CA
NEWS 24 Sep 18 Experimental properties added to the REGISTRY file
NEWS 25 Sep 10 ACASCEACT Enriched with Reactions from 1907 to 1985
NEWS 27 Cart 1 EVENTILINE has been reloaded
NEWS 28 Oct 24 BELSTEIN adds new search fields
NEWS 29 Cot 21 EVENTILINE has been reloaded
NEWS 30 Dec 21 BIRGAT will be removed from STN
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 17 TOXCENTER enhanced with additional content
NEWS 35 Dec 17 PCTFULL now covers WPIPCT AppScations from 1978 to date
NEWS 35 Dec 17 TOXCENTER 
                       ******** Welcome to STN International
                                                                                                                                                                                                                                                                                                                                                                                                                                   PATENT NO. KIND DATE

PATENT NO. KIND DATE

APPLICATION NO. DATE

PWO 2002055719 A2 20020718 WO 2002-US1123 20020109

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, KL, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CC, MG, AG, NG, GG, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-758982 A 20010109

AB "PHOATON" ""Nums" ""X"" (PVX)-based vectors were generated to investigate use of internal ribosomal entry site (
""RES"") elements to direct translation of a viral gene. An ""RES"" sequence from crucifer-infecting strain of tobacco mosaic virus was used to direct expression of the PVX ""coat""
""protein" "" "PRES"" was insexted downstream of the gene encoding green fluorescent protein (GFP) and upstream of the PVX ""coat""
""protein" in either sense or antisense orientation, such that ""coat" "" "protein" synthesis was dependent on nibosome recruitment to the ""RES"" stem loop structures were inserted at either 3' or 3' end of the ""RES" to investigate its mode of action as these structures block ribosomes. In vitro RNA transcripts were incubated to Nicoliana benthamiana plants and protoplasts, levels of GFP and ""coat" "" protein" expression were analyzed by ELISA and the rate of viral celt-cell movement was detd. by confocal laser scanning microscopy of GFP synthesis. PVX ""coat" "" "protein" was expressed, allowing celt-Oc-cell movement was detd. by confocal laser scanning microscopy of GFP synthesis. PVX ""coat" "" "protein" was expressed allowing celt-Oc-cell movement was detd. by confocal laser scanning microscopy of GFP synthesis. PVX ""coat" "" "protein" was expressed allow
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PATENT NO. KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                         L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 1 AN 2001:114647 BIOSIS DN PREVZ00100114647
                                                                                                                                                                                                                                                                                                                                                                                                                                                      A novel strategy for the expression of foreign genes from plant virus
                       NEWS EXPRESS January & CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0b(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER
General Internet Information
NEWS LOGIN
NEWS PHONE
Direct Dial and Telecommunication Network Access to STN
NEWS WWW
NEWS WINDER
CAS World Wide Web Site (general information)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   vectors.
J Toth, Rachel L.; Chapman, Sean; Carr, Fiona; Santa Cruz, Simon (1)
(1) Department of Entomology and Plant Pathology, Horticulture Research
International, East Mailing, Kent, ME19 6BJ: simon.santacruz@hri.ac.uk UK
) FEBS Letters, (2 February, 2001) Vol. 489, No. 2-3, pp. 215-219. print,
ISSN: 0014-5793.
                                                                                                                                                                                                                                                                                                                                                                                                                                     DT Article
                        Enter NEWS followed by the item number or name to see news on that specific topic.
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                             FILE HOME ENTERED AT 11:22:42 ON 12 FEB 2003
                         => FIL BIOSIS EMBASE CAPLUS
                                                                                                                                        SINCE FILE TOTAL
ENTRY SESSION
0.21 0.21
                       FULL ESTIMATED COST
                      FILE 'BIOSIS' ENTERED AT 11:23:27 ON 12 FEB 2003
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                      FILE 'EMBASE' ENTERED AT 11:23:27 ON 12 FEB 2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                         => s I1 and IRES
L4 4 L1 AND IRES
                      FILE 'CAPLUS' ENTERED AT 11:23:27 ON 12 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE 'HELP USAGETERMS' FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (FILE 'HOME' ENTERED AT 11:22:42 ON 12 FEB 2003)
                       => s potato virus X
L1 2179 POTATO VIRUS X
                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE 'BIOSIS, EMBASE, CAPLUS' ENTERED AT 11:23:27 ON 12 FEB 2003
2179 S POTATO VIRUS X
4 S L1 AND IRES AND COAT PROTEIN
4 S L1 AND IRES
L1 AND IRES
L1 AND IRES
                      => s I1 and IRES and coat protein
L2 4 L1 AND IRES AND COAT PROTEIN
                        => dup rem l2
                       PROCESSING COMPLETED FOR L2
L3 2 DUP REM L2 (2 DUPLICATES REMOVED)
                                                                                                                                                                                                                                                                                                                                                                                                                                        => s 14 not 12
L5 0 L4 NOT L2
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=> s I1 and vector?

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=> s i6 and coat protein
L7 66 L6 AND COAT PROTEIN
       => s I7 and (chimer? or fusion or heterolog)
L8 25 L7 AND (CHIMER? OR FUSION OR HETEROLOG)
           PROCESSING COMPLETED FOR L8
L9 16 DUP REM L8 (9 DUPLICATES REMOVED)
        YOU HAVE REQUESTED DATA FROM 18 ANSWERS - CONTINUE? Y/(N):y
       L9 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS
AN 2002:832988 CAPLUS
DN 137:347521
     ON 137:34/521
TI Sequences of synthetic nucleic acid molecule for imparting multiple traits and uses for transforming plants
IN Gonsalves, Dennis; Fermin-Munoz, Gustavo Alberto
PA Cornell Research Foundation, Inc., USA
O PCT Int. Appl., 191 pp.
CODEN: PIXXO2
     DT Patent
LA English
FAN.CNT 1
PATENT NO.
 PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002086146 A2 20021031 WO 2002-US13377 20020424
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, OZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, XM, XM, ZN, OX, CM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, IZ, VM, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW; GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, OX, ES, FI, FR, GB, GR, IE, TL, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, AG, AG, GG, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-2860759 P 20010424
AB The present invention is directed to a DNA construct which includes a modified DNA mol. with a nucleotide sequence which is at least 80%, but less than 100%, homologous to how or more desired trait DNA mols, and which imparts the desired trait Dplants transformed with the DNA construct. Each of the desired trait DNA mols. relative to the modified nucleic acid mol. have nucleotide sequence similarity values which differ by no more than 3 percentage points. The DNA construct may further include either a silencer or a plurality of modified DNA mols. The present invention also relates to host cells, plant cells, transgenic plants, and transgenic plant seeds contg, such DNA constructs. The present invention is also directed to a method of prep. a modified nucleic acid mol, suitable to impart multiple traits to a plant, a method of detg. whether multiple desired traits can be imparted to plants by a single modified DNA mol., and a method for imparting traits to plants by transforming the plants with the DNA construct.
                                                                                           KIND DATE
                                                                                                                                                                               APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     L9 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2003 ACS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001:195215 CAPLUS
134:232724
Plant promoters from the cyclophilin genes of Brassica napus and maize and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gasser, Charles Scott; Budelier, Kim Anne; Gunning, Dorian A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SO U.S., 22 pp.
CODEN: USXXAM
DT Patent
LA English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FAN.CNT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PATENT NO. KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PI US 6204373 B1 20010320 US 1990-517918 19900502
PRAI US 1990-517918 19900502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRAI US 1990-517918 19900502

AB The invention provides plant cyclophilin promoters that direct efficient expression of contiguous structural coding sequences in essentially all plant cells and plant organs of transgenic plants. The promoters are isolated using the cDNA sequences encoding cyclophilin from Brassica napus, maize, and tomato. In addn., ""chimeric" genes contg. the plant cyclophilin promoters of the invention and ""vectors"" comprising the plant cyclophilin promoters and ""chimeric" genes of the invention are taught herein.

RE.ONT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L9 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS

    L9 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS
AN 2001:573761 CAPLUS
DN 135:271507
II Plant viral genes in DNA idiotypic vaccines activate linked CD4+ T-cell mediated immunity against B-cell malignancies
AU Savelyeva, Natalia; Munday, Rosalind; Spellerberg, Myfamwy B.;
Lomonossoff, George P.; Stevenson, Freda K.
CS Tenovus Laboratory, Southampton University Hospitals Trust, Southampton, SO16 670, UK
SO Nature Biotechnology (2001), 19(8), 760-764
CODEN: NABIF9; ISSN: 1087-0158
P8 Nature America Inc.
DT Journal
       L9 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS
       AN 2002:391745 CAPLUS
DN 136:400587
     DN 130:40U59/
TI DNA vaccines encoding ***fusion*** protein of desired antigen and
adjuvant sequence of plant viral ***coat*** ****protein***
IN Savelyeva, Natalia; Stevenson, Freda
PA Cancer Research Ventures Limited, UK
     PA Cancer Research Ven
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CODEN: NABIF9; ISSN: 1087-0156
P8 Nature America Inc.
DT Journal
LA English
AB DNA delivery of tumor antigens can activate specific immune attack on cancer cells. However, antigens may be weak, and immune capacity can be compromised. ""Fusion" of genes encoding activating sequences to the tumor antigen sequence facilitates promotion and manipulation of effector pathways. Idiotypic determinants of B-cell tumors, encoded by the variable region genes, are clone-specific tumor antigens. When assembled as single-chain Fv (scPv) alone in a DNA vaccine, immunogenicity is low. Previously, the authors found that ""fusion" of a sequence from tetanus toxin (fragment C, FrC) promoted anti-fidiotypic protection against lymphoma and myeloma. The authors have now investigated an alternative ""fusion" gene derived from a plant virus, "potator" "Nurs" "X" ""coat" "" proteins", a primary antigen in humans. When fused to scPv, the self-aggregating protein generates protection against lymphoma and myeloma. In contrast to scPv-FrC, protection against hymphoma is mediated by CD4+ T cells, as is protection against myeloma. Plant viral proteins offer new opportunities to activate immunity against inked T-cell epitopes to attack cancer.

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
PATENT NO. KIND DATE

APPLICATION NO. DATE

PI WO 2002040513 A2 20020523 WO 2001-GB5142 20011120

WO 2002040513 A3 20021107

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, RR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PJ, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AJ 2002023860 A5 20020527 AU 2002-23860 20011120

PRAI GB 2000-28319 A 20001120

WO 2001-05B5142 W 20011120

AB A nucleic acid construct is provided for delivery into living cells in vivo for inducing an immune response in a patient to an antigen; the construct directing the expression of a ""fusion" protein, said ""fusion" protein comprising said antigen and an adjuvant sequence derived from a plant viral ""coat" ""protein". The plant viral ""coat" ""protein". The plant viral ""coat" "" "protein". The antigen is myeloma-specific antigen sef-V-ST33, self antigen, tumor antigen, viral antigen derived from e.g. Staphylococus or Salmonella. Methods for making such constructs, and methods of using such constructs for the treatment of infectious disease, cancer and B cell malignancy, are provided.
                    PATENT NO. KIND DATE
                                                                                                                                                                                 APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L9 ANSWER 6 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INCIDUPLICATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N
1 2000:398448 BIOSIS
DN PREV200000398448
II Transgenic or plant expression ***vector*** -mediated recombination of Plum pox virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prum pox virus.

AU Varrelmann, Mark; Palkovics, Laszlo; Maiss, Edgar (1)

CS (1) Institute of Plant Diseases and Plant Protection, University of Hannover, Herrenhaeuser Str. 2, 30419, Hannover Germany

SO Journal of Virology, (August, 2000) Vol. 74, No. 16, pp. 7462-7469, print. ISSN: 0022-536X.

    ANSWER 3 OF 16 CAPLUS COPYRIGHT 2003 ACS
    AN 2002-10231 CAPLUS
    DN 136:84679
    To Production of vaccines using transgenic plants or modified plant viruses as expression ""vectors" and transencapsidated viral coat proteins as epilope presentation systems
    IN Hammond, Rosemarie; Zhao, Yan; Hammond, John
    PA United States of America, as Represented by the Secretary of Agriculture, USA

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ISSN: 0022-538X.
DT Article

A English
SL English
SL English
BD Different mutants of an infectious full-length clone (p35PPV-NAT) of Plum pox Virus (PPV) were constructed: three mutants with mutations of the assembly motifs RQ and DF in the ""coat" ""protein" gene (CP) and how CP ""chimeras" with exchanges in the CP core region of Zucchini yellow mosaic virus and Potato virus Y. The assembly mutants were restricted to single infected cells, whereas the PPV ""chimeras" were able to produce systemic infections in Nicotiana benthamiana plants. After passages in different transgenic N. Denthamiana plants expressing the PPV CP gene with a complete (plant line 4.30.45, or partially deleted 3-nontranslated region (3'-NTR) (plant line 17.27.4.), characterization
  USA
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
    LA English
FAN.CNT 1
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PATENT NO

KIND DATE

APPLICATION NO DATE

262 L1 AND VECTOR?

L6

of the viral progeny of all mutants revealed restoration of wild-type virus by recombination with the transgenic CP RNA only in the presence of the complete 3'-NTR (4.30.45.). Reconstitution of wild-type virus was also observed following cobombardment of different assembly-defective observed following cobombardment of different assembly-defective posperval Together with a movement-defective plant expression ""vector" of ""Potato" ""virus" ""X" expressing the intact PPV-NAT CP gene transiently in nontransgenic N. benthamiana plants. Finally, a ""chimeric" recombiant virus was detected after cobombardment of defective p35PPV-NAT with a plant expression ""vector"-derived CP gene from the sour cherry losalet of PPV (PPV-SoC). This ""chimeric" virus has been established by a double recombination event between the CP-defective PPV mutant and the intact PPV-SoC CP gene. These results demonstrate that viral sequences can be tested for recombination events without the necessity for producing transgeric plants. transgenic plants. L9 ANSWER 7 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 2
AN 2000:278084 BIOSIS
DN PREV200000278084
TI Rotavirus VP6 expressed by PVX ***-vectors*** in Nicotiana benthamiana coats PVX rods and also assembles into viruslike particles.
AU O'Brien, Graham J.; Bryant, Catherine J.; Voogd, Charlotte; Greenberg, Harry B.; Gardner, Richard C.; Bellamy, A. Richard (1)
CS (1) School of Biological Sciences, University of Auckland, Auckland New Zealand O Virology, (May 10, 2000) Vol. 270, No. 2, pp. 444-453. print. ISSN: 0042-6822. ISSN: 0042-0022.
DT Article
LA English
SL English
AB The rotavirus major inner capsid protein (VP6) has been expressed in L9 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS AN 1998:605027 CAPLUS DN 129:198886 DNA construct to confer multiple traits on plants in Dink construct to conter multiple traits on plants
IN Pang, Sheng-zhi; Gonsalves, Dennis; Jan, Fuh-jyh
PA Cornell Research Foundation, Inc., USA
SO PCT Int. Appl., 77 pp.
CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9837223 A1 19980827 WO 1998-US3030 19980218

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, IL, UJ, W, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, UZ, WA, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, ML, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9886571 A1 19980809 AU 1998-69571 19980218

AU 729306 B2 20010201

EP 970237 A1 20000112 EP 1998-908568 19980218

R: CH, DE, FR, GB, IT, LI

BR 9807587 A 20000321 BR 1998-7587 19980218

US 2002108146 A1 20020808 US 2001-943215 20010830

PRAI US 1997-35350P P 19970219

US 1998-25635 A1 19980218

WO 1998-US3030 W 19980218

AB The present invention is directed to a DNA construct formed from a ""fusion"** gene which includes a trail ENA mol. The silencer DNA mol. is operatively coupled to the trail DNA mol. The silencer DNA mol. is operatively coupled to the trail DNA mol. With the trail and silencer DNA mols. collectively having sufficient length to impart a desired trail to plants transformed with the DNA construct. Expression systems, host cells, plants, and plant seeds contra, the DNA construct are disclosed. The present invention is also directed to imparting multiple trails to a plant, and in particular to prepp. plants which are resistant to multiple viruses. Small nucleocapsid gene fragments (92-235 bp) from tomato spotted with virus do not mediate RNA-mediated tospovirus resistant to multiple viruses. Small nucleocapsid gene fragments with jellyfish green fluorescent protein or turnip mosaic virus ""coat*"

""" protein and protein or turnip mosaic virus """ coat*"

""" protein and protein or turnip mosaic virus """ coat*"

""" protein and protein or turnip mosaic virus """ coat*"

""" protein and KIND DATE APPLICATION NO. DATE ALL CITATIONS AVAILABLE IN THE RE FORMAT L9 ANSWER 9 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 3 PREV199800262672 DN PREV198800262672
 The movement protein of cucumber mosaic virus traffics into sieve elements in minor veins of Nicotiana clevelandii.
 AU Blackman, Leila M.; Boevink, Petra; Cruz, Simon Santa; Palukaitis, Peter; Oparka, Karl J. (1)
 CS (1) Unit Cell Biol., Dep. Virol., Scottish Crop Res. Inst., Invergowrie, Dundee DD2 5DA UK
 O Plart Cell. (April, 1998) Vol. 10, No. 4, pp. 525-537.
 ISSN: 1040-4651.
 DT. Article.

DT Article

The location of the 3a movement protein (MP) of cucumber mosaic virus (CMV) was studied by quantitative immunogold labeling of the wild-type 3a

B Academic Press T Journal
1 English
3 The proteins encoded by open reading frames (ORF) 3 and 4 of groundnut rosette umbravirus (GRV) were expressed in Nicotiana bentha miana as fusions with green fluorescent protein (GFP) from modified ""potato""
""Virus" """ """ "" (VIV) and tobacco mosaic virus (TMV)
"""vectors"". Regardless of which plant virus """ vector" was used, GFP hissed to the ORF3 protein accumulated in large cytoplasmic inclusion bodies and in nucleoli, whereas GFP fused to the ORF4 protein was found in cell walls close to plasmodesmata. Cell-to-cell movement of PVX requires three proteins encoded by the triple gene block (TGB) and also the """ protein" (CP). However, when GRV ORF4 was substituted for the PVX CP gene, the hybrid virus was able to move normally in inoculated leaves but not into noninoculated leaves. In contrast, when GRV ORF4 was substituted for the PVR as substituted for the TGB, or for both the TGB and the CP gene, movement of the hybrid viruses was limited to a few epidermal cells neighboring the infection site. Thus, the GRV ORF4 protein can replace the movement proteins of PVX for some of their functions. L9 ANSWER 12 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 1998:165030 BIOSIS Simultaneous accumulation of multiple viral coat proteins from a TEV-NIa based expression ***Vector***.

| Ceriani, M. Fernanda; Marcos, Jose F.; Hopp, H. Esteban; Beachy, Roger N. CS (1) Dep. Cell Biol., Scripps Res. Inst., 10650 North Torrey Pines Rd., CA 92037 USA
SO Plant Molecular Biology, (Jan. 2, 1998) Vol. 36, No. 2, pp. 239-248.
ISSN: 0167-4412. If Article
A English
B We previously described an expression cassette that relies on the tobacce
etch virus (TEV) nuclear inclusion a (NIa) protease and leads to the
coordinated accumulation of multiple proteins through self processing of a
polyprotein (21). However, low levels of proteins accumulated when the
full-length protease was encoded within the polyprotein (22). Studies were
conducted to evaluate whether the disruption of NIa nuclear localization
would affect the levels of proteins produced via the cassette.
Modifications comprised either removal of its nuclear localization signals
(NLSs), removal of the VPg domain (which includes the NLSs), and
""\u00e4sion" to the 6 kDa protein, previously demonstrated to be a viral
cytoplasmic anchor (28). In in viror translation reactions and in v/vo
protoplast experiments the modified NIa retained sequence-specific
proteolysis. Moreover, the removal of the NLSs correlated with an increase
in GUS reporter accumulation. The modified cassette, pPRO10, led to the
synthesis of up to three viral ""coat" "protein" (CPs) in
addition to NIa. However, the accumulation of proteins in protoplasts
depended upon the position of the CP coding sequence within the cassette
as well as on the stability of the protein.

MP in leaves of Nicotiana clevelandii infected by CMV as well as by using a 3a-green fluorescent protein (GFP) ""husion" expressed from a "potato" "Arius" "X"" (PVX) ""vector". Whether expressed from CMV or PVX, the 3a MP targeted plasmodesmata and accumulated in the central carty of the pore. Within minor veins, the most extensively labeled plasmodesmata per elements and companion cells. In addition to targeting plasmodesmata, the 3a MP accumulated in the parietal layer of mature sieve elements. Confocal imaging of cells expressing the 3a-GFP ""hision"" protein showed that the 3a MP assembled into elaborate fibrillar formations in the sieve element parietal layer. The ability of 3a-GFP, expressed from PVX rather than CMV, to enter sieve elements demonstrates that neither the CMV RNA nor the CMV ""coat*" ""protein*" is required for trafficking of the 3a MP into sieve elements. CMV virions were not detected in plasmodesmata from CMV-infected tissue, although large CMV aggregates we often found in the parietal layer of sieve elements and were usually surrounded by 3a MP. These data suggest that CMV traffics into minor vein sieve elements as a ribonucleoprotein complex that contains the viral RNA, ""coat*" ""protein*", and 3a MP, with subsequent viral assembly occurring in the sieve element parietal layer.

9 ANSWER 10 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS

N 1999:74113 biolos
 N PREV199900074113
 Production of a functional single chain antibody attached to the surface of a plant virus.

AU Smolenska, Lisa (1); Roberts, Ian M.; Learmonth, Deanne; Porter, Andrew

AU Smolenska, Lisa (1); Roberts, Ian M.; Learmorth, Deanne; Porter, Andre J.; Harris, William J.; Willson, T. Michael A.; Santa Cruz, Simon (1) CS (1) Dep. Virol., Scottish Crop Res. Inst., Invergowrie, Dundee DD2 5DA, UKL

O FEBS Letters, (Dec. 28, 1998) Vol. 441, No. 3, pp. 379-382.
ISSN: 0014-5793.

\(\) English
3 A ""topolato"" ""virus"" ""X*" (PVX) ""vector" was
used to express a single chain antibody fragment (scFv) against the
herbicide diuron, as a ""fusion" to the viral ""coati"
""protein" . The modified virus accumulated in inoculated Nicotiana
clevelandii plants and assembled to give virus particles carrying the
antibody fragment. Electron microscopy was used to show that virus
particles from infected leaf sap were specifically trapped on grids coated
with a diuron BSA conjugate. The results demonstrate that the PVX
""vector" can be used as a presentation system for functional scFv.

ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS
N 1988:191437 CAPLUS
N 128:292772
Intracellular location of two groundnut rosette umbravirus proteins
delivered by PVX and TMV **-vectors***
J Ryabov, E. V.; Oparka, K. J.; Santa Cruz, S.; Robinson, D. J.; Taliansky,

Wil. L. CS Virology Dep., Scotlish Crop Research Inst., Dundee, DD2 5DA, UK SO Virology (1998), 242(2), 303-313 CODEN: VIRLAX; ISSN: 0042-6822

L9 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS

AN 1999:74113 RIOSIS

DT Article English

PB Academic Press

L9 ANSWER 10 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE

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AN 1997:30307 BIOSIS

DN PREV199799917110

T Restricted virus multiplication in May Queen potato plants transformed with the **coat*** ***protein*** gene of potato leafroil
 Luteovirus.
                                                                                                                                                                                                                                                      L9 ANSWER 18 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE
                                                                                                                                                                                                                                                     6
AN 1996:123590 BIOSIS
DN PREV199698895725
TI Imaging the green fluorescent protein in plants-viruses carry the torch.
AU Oparka, K. J. (1); Roberts, A. G.; Prior, D. A. M.; Chapman, S.;
Baulcombe, D.; Santa Cruz, S.
CS (1) Scottish Crop Research Inst., Invergowrie, Dundee DD2 5DA UK
SO Protoplasma, (1995) Vol. 189, No. 3-4, pp. 133-141.
ISSN: 0033-183X.
DT. General Review
                                                                                                                                                                                                                                                                General Review
                                                                                                                                                                                                                                                      DI General Review

A English

AB The green fluorescent protein (GFP) was introduced into plant cells using "potato" "Nrus" "X" as a "vector". The GFP was produced at high levels within virus-infected cells by utilising a duplication of the viral "coat" "protein" subgenomic RNA promoter sequence to direct transcription of mRNA encoding the GFP. We
                                                                                                                                                                                                                                                            promoter sequence to direct transcription of mRNA encoding the GFP. We also exploited the ability of GFP to retain its fluorescence when fused to other proteins by fusing it to the PVX ""coat*" ""protein*". The resultant fluorescent virus became systemic and its movement from cell to cell was traced using confocal laser scanning microscopy. Using PVX as the ""vector" additional fusions of the GFP were made to the movement protein of tobacco mosaic virus (TMV). The fluorescent ""fusion*" protein produced was targeted to specific wall sites thought to be plasmodesmatal pit fields. The utility of virus-based ""vectors*" for the delivery and targeting of GFP in living plant cells is discussed.
  L9 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS AN 1996:369872 CAPLUS
            125:27694
  ON 125:27694

Ti Manufacture of a protein as a ""fusion" product with a viral ""coat" ""protein" with presentation of the protein on the surface of a rod-phaped virus

IN Chapman, Sean Nicholas; Santa Cruz, Simon Peter; Oparka, Karl John;
  IN Chapman, Sean Nicholas; Santa Cruz,
Wilson, Thomas Michael Aubrey
PA Scottish Crop Research Institute, UK
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
                                                                                                                                                                                                                                                           -Logging off of STN---
         PATENT NO. KIND DATE
                                                                                    APPLICATION NO. DATE
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         WO 9612027 A1 19960425 WO 1995-GB2457 19951018
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
GB, GE, HU, IS, JP, KE, KS, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
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COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)
 L9 ANSWER 15 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. AN 1996:374740 BIOSIS DN PREV199899997096
TI Assembly and money.
                                                                                                                                                                                                                                                      FILE 'EMBASE' ENTERED AT 17:18:32 ON 20 FEB 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.
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PLEASE SEE 'HELP USAGETERMS' FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

    DN PREV199899097096
    Tl Assembly and movement of a plant virus carrying a green fluorescent protein overcoat.
    AU Cruz, Simon Santa (1); Chapman, Sean; Roberts, Alison G.; Roberts, Ian M.; Prior, Denton A. M.; Oparka, Karl J.
    (1) Scottish Crop Res. Inst., Invergowne, Dundee DD2 DA UK
    Proceedings of the National Academy of Sciences of the United States of America, (1999) Vol. 93, No. 13, pp. 6288-6290.
    ISSN: 0027-8424.
    DT Article

                                                                                                                                                                                                                                                      => s IRES and viral vector
L1 40 IRES AND VIRAL VECTOR
                                                                                                                                                                                                                                                      ⇒> dup rem I1
PROCESSING COMPLETED FOR L1
L2 29 DUP REM L1 (11 DUPLICATES REMOVED)
       A English

A "Potato*** **"virus*** **"X*** (PVX) is a filamentous plant

virus infecting many members of the family Solanaceae. A modified form of

PVX, PVX.GFP-CP which expressed a **"chimeric*** gene encoding a

**"tusion*** between the 27-kDa Aequorea victoria green fluorescent

protein and the amino terminus of the 25-kDa PVX **"coat***

**"protein***, assembled into virions and moved both locally and

systemically the PVX.GFP-CP virions were over twice the diameter of

wild-type PVX virions. Assembly of PVX.GFP-CP virions required the

presence of free **"coat*** **"protein*** subunits in addition to

the **"fusion*** protein subunits. PVX.GFP-CP virions accumulated as

paracrystalline arrays in infected cells similar to those seen in cells
                                                                                                                                                                                                                                                      => s I2 and py<2001
2 FILES SEARCHED..
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YOU HAVE REQUESTED DATA FROM 14 ANSWERS - CONTINUE? Y/(N):y
                                                                                                                                                                                                                                                      L3 ANSWER 1 OF 14 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
                                                                                                                                                                                                                                                     AN 2000:179123 BIOSIS

ON PREV200000179123

I Establishment of efficient reaggregation culture system for gene transfection into immature T cells by retroviral vectors.
```

L9 ANSWER 13 OF 16 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

- AU Hozumi, Katsuto; Ohtsuka, Ryo; Suzuki, Daisuke; Ando, Kiyoshi; Ito, Mamoru; Nishimura, Takashi; Merkenschlager, Matthias; Habu, Sonoko (1) CS (1) Department of Immunology, Toksu University School of Medicine, Bohseidai, Isehara, 259-1193 Japan SO Immunology Letters, (***Jan. 10, 2000***) Vol. 71, No. 1, pp. 61-68.

- Immunology Letters, (""Jan. 10, 2000"") Vol. 71, No. 1, pp. 61-68. ISSN: 0165-2478.

 DT Article
 LA English
 SL English
 SL English
 AB To overcome low efficiency of retroviral infection into immature T cells, we modified reaggregation fetal thymus organ culture by closely packed co-culture with virus-producing cells (VPC). The ""viral""
 "vector" was constructed in chimmeric vector, pMX, with ""IRES"" and tailless-rat CD2 as a surface marker of infected cells. A rearranged TCR beta gene (Vbeta8.2) was further inserted into the construct for investigating effect of the introduced gene in T cell development. Using this system, we succeeded to transfer the ""viral" "vector" into immature thymocytes at a remarkably higher efficiency compared to conventional methods using medium containing retrovirus. Moreover, the introduced TCR beta gene was expressed on thymocytes of RAG2-deficient mice to induce in the transition of CD4-CD8-double-negative (DN) into CD4+CD8-double-positive (DP) cells by transducing beta-selection signaling. Thus, our modified reaggregation cutture system is useful for studying the molecular mechanism of T cell development due to a highly efficient gene transfer into immature T cells.
- L3 ANSWER 2 OF 14 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- 2000:66467 BIOSIS
- DN PREV200000068467
 TI Prevention of 6-hydroxydopamine-induced rotational behavior by BDNF
- Prevention of 6-hydroxydopamine-induced rotational behavior by BDNF somatic gene transfer.

 AU Klein, Ronald L. (1); Lewis, Mark H.; Muzyczka, Nicholas; Meyer, Edwin M. CS. (1) Department of Pharmacology and Therapeutics, University of Florida, Gainesville, FL USA

 SO Brain Research, (**Nov. 20, 1999***) Vol. 847, No. 2, pp. 314-320. ISSN: 0006-8993.

 DT Article

 LA English

 SL English

 SL English

 Brain-derived neurotrophic facts. (2007).

- English

 Brain-derived neurotrophic factor (BDNF) was expressed via injection of
 "vical" ""vector" into the substantia nigra pars compacta
 (SNc) to investigate its influence on nigrostriatal dopaminergic activity
 and locomotor behavior. The recombinant adeno-associated virus (rAAV)
 vector, pTR-BDNFmyc, incorporated the neuron-specific enclase (NSE)
 promoter and the internal ribosome entry site (""IRES"") element
 driving expression of both epilope-tagged BDNF and green fluorescent
 protein (GFP) bid stronically. The control vector, pTR-UF4, incorporated
 NSE promoter-driven GFP expression only. Transgene expression persisted in
 both vector groups throughout the 9 month course of the study. Partial
 8-hydroxydopamine (6-OrlDA) lesions were conducted in the SNc ipsilated
 to, and 6 months after, transduction with either the pTR-BDNFmyc or the
 pTR-UF4. Transgenic BDNFmyc had no effect on the number of tyrosine
 hydroxylase (TH)-tabeled neurons in the SNc after 6-OrlDA-lesions, but did
 block the amphetamine-induced, ipsiversive, turning-behavior caused by the nydroxylase (1H)-labeled neurons in the SNc after 6-OHDA-lesions, but did block the amphetamine-induced, ipsiversive, turning-behavior caused by the lesion in the pTR-UF4 group. The BDNFmyc-transduced group also demonstrated more locomotor activity and rotational activity contralateral to the lesioned side than did the pTR-UF4-transduced group. Long-term, stable expression of BDNF can therefore modulate locomotor activity without significantly affecting nigrostriatal dopaminergic survival.
- L3 ANSWER 3 OF 14 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- AN 1999:126783 BIOSIS

 N PREV199900126783

 TI Antisense oligonucleotide inhibition of hepatitis C virus (HCV) gene expression in livers of mice infected with an HCV-vaccinia virus

- recombinant.

 AU Zhang, Hong; Hanecak, Ronnie; Brown-Driver, Vickie; Azad, Raana; Conklin, Boyd; Fox, Maureen C.; Anderson, Kevin P. (1)

 CS (1) 2292 Faraday Ave., Carlsbad, CA 82008 USA

 SO Antimicrobial Agents and Chemotherapy, (***Feb., 1999***) Vol. 43, No. 2, pp. 347-353.

 SSN: 0086-4804.

- 2, pp. 347-353.
 ISSN: 0066-4804.
 DT Article
 LA English
 A Hepatitis C virus (HCV) is the major cause of non-A, non-B hepatitis
 worldwide. Current treatments are not curative for most infected
 individuals, and there is an urgent need for both novel therapeutic agents
 and small-animal models which can be used to evaluate candidate drugs. A
 small-animal model of HCV gene expression was developed with recombinant
 vaccinia virus vectors. VHCV- ****IRES**** (internal ribosome entry site)
 is a recombinant vaccinia ****Viral**** "vector*** containing the
 HCV 5 nontranslated region (5*NTR) and a portion of the HCV core coding
 region fused to the firefly tucferase gene. Intrapertioneal injection of
 VHCV- ****IRES**** produced high tevels of fuciferase activity in the
 livers of BALB/c mice. Antisense oligonucleotides complementary to the HCV
 5*NTR and translation initiation codon regions were then evaluated for
 their effects on the expression of these target HCV sequences in BALB/c
 mice infected with the vaccinal avinus vector. Treatment of VHCV*****IRES**** -infected mice with 20-base phosphorothioate oligonucleotides
 complementary to the sequence surrounding the HCV initiation codon
 (nucleotides 330 to 349) specifically reduced fuciferase expression in the
 livers in a dose-dependent manner. Inhibition of HCV reporter gene
 expression in this small-animal model suggests that antisense
 oligonucleotides may provide a novel therapy for treatment of chronic HCV
 infection.

 - ANSWER 4 OF 14 CAPLUS COPYRIGHT 2003 ACS 2001:480638 CAPLUS 135:87978

- DN 135:87978
 TI Mammalian retroviral vectors and their uses in study of gene expression
 IN Beach, David H.; Hannon, Gregory J.; Conklin, Douglas; Sun, Peiging
 PA Cold Spring Harbor Laboratory, USA
 SO U.S., 80 pp., Cont.-in-part of U.S. 6,025,192.
 CODEN: USXXXAM
 DT Patent
 LA English
 FAN.CNT 2
 PATENT NO. 2015 2.277

PATENT NO.	KIND DATE	APPLICATION NO. DATE
PI US 6255071	B1 20010703	US 1997-820931 19970319
US 6025192	A 20000215	US 1996-716926 19960920 <
CA 2262476	AA 19980326	CA 1997-2262476 19970922 <

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WO 9812339 A2 19880326 WO 1997-US17579 19970922 <--
WO 9812339 A3 19980903

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ZW, AM, AZ, BY, KG, KZ, MD, TM, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9746590 A1 19890414 AU 1997-46590 19970922 <-
BU 738158 B2 2010913

EP 932695 A2 19890804 EP 1997-945369 19970922 <-
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
       R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2002514054 T2 20020514 JP 1998-515028 19970922
PRAI US 1998-718926 A2 199900920
US 1997-020931 A 19970319
WO 1997-US17579 W 19970922
AB The present invertion relates to methods and compns. for the elucidation of mammalian gene function. Expression vectors for animal cells that use regulatory elements of retroviruses to drive expression of cloned genes are described. These vectors are replication-defective and can be used in improved mammalian complementation screening, functional inactivation of specific essential or non-essential mammalian genes, and identification of mammalian genes modulated by specific stimuli. Construction of plasmids for the manuf. of a no. of such vectors is described. In particular, the compns. of the present invention include, but are not limited to, replication-deficient retroviral vectors, fibraries comprising such vectors retroviral particles produced by such vectors in conjunction with retroviral packaging cell lines, integrated provirus sequences derived from the retroviral packaging cell lines, integrated provirus sequences derived novel retroviral packaging cell lines, integrated provirus further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention. The compns. of the present invention further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention. The compns. of the present invention further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention. The compns. of the present invention further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention. The compns. of the present invention further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention. The compns. of the present invention further include novel retroviral packaging cell lines. Integrated provirus sequences of the invention.
                                               ANSWER 5 OF 14 CAPLUS COPYRIGHT 2003 ACS 2000:861527 CAPLUS 134:26054
                              N 134:26054
A novel packaging cell line for the rescue, production and titration of high-capacity adenovirus vectors
I Krougliak, Valeri A, Eisensmith, Randy C.
A Mount Sinal School of Medicine, USA
O PCT Int. Appl., 53 pp.
CODEN: PIXXD2
TO SEEN: PIXXD2
TO SEEN: PIXXD2
               so
               DT
                                          Patent
                                        PATENT NO.
                                                                                                                                                             KIND DATE
                                                                                                                                                                                                                                                                                                                   APPLICATION NO. DATE
     PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000072887 A1 20001207 WO 2000-US14914 20000526 
W' AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, DT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NIL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-136481P P 19990528

AB The present invention describes a method of producing adenovirus gutless amplicon 
"Virgination The invention also describes a system for the helper virus independent replication and packaging of adenovirus gutless vectors. The method avoids the problem by placing helper functions on an episome based on an Epstein-Barr virus replicon that is stable at a low copy no but that tacks the encapsidation signal and the terminal protein gene. The helper functions are under control of a regulated promoter. Viral replication is induced when the cells are transformed with a vector carrying the terminal protein gene. A cell line for this system is also discussed.
            discussed.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
          L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2003 ACS
AN 2000:209936 CAPLUS
DN 132:246355

Timethods using beta -endorphin-expressing recombinant expression systems for treating chronic pain

IN ladarola, Michael J.; Caudle, Robert M.; Finegold, Alan A.; Mannes, Andrew
     IN ladarola, Michael J.; Caudle, Robert M.; Finegold, Alan A.; Mannes, Andrew J.; Olah, Zoltan
PA. Government of the United States of America, Represented by the Secretary, Department of Health and Human Services, USA
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA Engish
FAN.CNT 2
PATENT NO. KIND DATE APPLICATION NO. DATE
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000018800 A2 20000330 WO 1999-US22103 19990923 <-
WO 2000018800 A3 20000720
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GG, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, RG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AJ 9962609 A1 20000410 AU 1999-62609 19990923 <-
PRAI US 1998-100901P P 19980923

AB Compns. and methods are provided which selectively treat chronic pain while not significantly affecting basal nociceptive, acute pain responses. The invention provides for compns. and methods of treating chronic pain by administering, beta-endorphin-expressing recombinant expression systems, e.g. adenovirus or adeno-assocd. Virus, Into a subarachnoid or epidural
```

space. The recombinant virus infects the pia mater connective tissue cells and the infected cells express the fusion protein, wherein the fusion protein is secreted into the spinal cord parenchymal tissue in an arm. effective to treat the chronic pain but not significantly affecting basal nociceptive responses L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2003 ACS AN 2000:20 CAPLUS DN 132:32687 DN 132:32687

TI Cloring of Escherichia coli cytosine deaminase gene and expression of the gene using a new ""viral"" ""vector""

IN Gu, Jianren; Ren, Shengiun; Xu, Xiulan

AS Shanghai Tumour Research Institute, Peop. Rep. China

SO Faming Zhuanii Shenqing Gongkai Shuomingshu, 39 pp.

CODEN: CNXXEV

DT Patent

LA Chinese FAN.CNT 1 KIND DATE PATENT NO. APPLICATION NO. DATE PI CN 1161375 A 19971008 CN 1055968 B 20000830 PRAI CN 1998-116598 19961126 CN 1996-116598 19961129 <-CN 1055968 B 20000830
PRAI CN 1996-116598 19991129
AB The gene encoding cytosine deaminase of Escherichia coli strain H-30 was cloned, and its initiation codon of 'GTG' was mutated to 'ATG' by PCR.
Prepn. of prokaryotic recombinant expression vector pBV220-CD; prepn. of packaging cells for producing infectious pseudo-retrovirus or pseudo-adenovirus vectors; and use of the pseudo-virus for treating cancer along with 5-FC (5-fluorocytosine), which induces lethal toxicity to the cells contg. active CD gene, are also described. L3 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2003 ACS AN 1999:439294 CAPLUS DN 131:69280 Novel gene trap and its use for high efficiency selection of regulated eukaryotic genes
 Baetscher, Manfred; Nir, Waan-jeng PA Biotransplant, Inc., USA SO U.S., 23 pp., Cont. of U.S. Ser. No. 374,833, abandoned. CODEN: USXXAM DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PI US 5922601 A 19990713 US 1996-716854 19960916

PRAI US 1995-374833 19950119

AB The invention provides a novel gene trap construct that allows for high efficiency identification and selection of eukaryotic genes whose activity is regulated upon a cellular transition. Said **viral***

Vector comprises in its downstream sequence (i) a cassette having a functional splice acceptor, a translation stop sequence and an internal ribosome entry site and (ii) a promoterless protein coding sequence encoding at least one polypeptide providing pos. and neg. selection traits. Also provided is a method for identification of genes whose activity is regulated upon a cellular transition event by introducing the gene trap construct into a cell and observing expression of the pos. and/or neg, selection traits before and after the transition event.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 9 OF 14 CAPLUS COPYRIGHT 2003 ACS
1999:194259 CAPLUS
130:233258
""Vector*** system capable of expressing an apoptosis-associated gene
Hamada Historium IN Hamada, Hirofum PA RPR Gencell Asia/Pacific Inc., Japan SO PCT Int. Appl., 51 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9913073 A2 19990810
W: AU, CA, KR, NZ, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
JP 11075859 A2 19990323 JP 1997-259235 19970908 <-AU 9889991 A1 19990329 AU 1998-89991 19980907 <-PRAI JP 1997-259235 19970908
WO 1998-JP4010 19980907
AB An apoptosis-resistant virus-sensitive cell line based upon cell line 293 is disclosed. To such cells, apoptosis resistance genes such as crmA, bct-2, bct-X; FLIP, survivin, IAP, or ILP have been introduced. The generation of adenovirus vectors capable of expressing apoptosis-assocd. genes such as FAS, FLICE, bct-xs, and Bax is achieved using said cell line. The recombinant viruses of the invention may be useful for gene therapy for cancer, autoimmune diseases, graft rejection, and inflammatory diseases. ANSWER 10 OF 14 CAPLUS COPYRIGHT 2003 ACS 1998:395891 CAPLUS 129:131842 DN 129:131842

In vivo expression of therapeutic human genes for dopamine production in the caudates of MPTP-treated monkeys using an AAV vector

AU During, M. J.; Samulish, R. J.; Elsworth, J. D.; Kaplitt, M. G.; Leone, P.; Xiao, X.; Li, J.; Freese, A.; Taylor, J. R.; Roth, R. H.; Sladek, J. R., Jr.; O'malley, K. L.; Redmond, D. E., Jr.

S. Department of Molecular Medicine, University of Auctiand School of Medicine, Auctiand, N. Z.

SO Gene Therapy (***1998***), 5(9), 820-827

CODEN: GETHEC; ISSN: 0989-7128 PB Stockton Press Journal engasin
An adeno-assocd. virus (AAV) vector, expressing genes for human tyrosine
hydroxylase (TH) and arom. amino acid decarboxylase (AADC), demonstratesignificantly increased produ, of dopamine in 293 (human embryonic kidney)
cells. This bicistronic vector was used to transduce striatal cells of

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six asymptomatic but dopamine-depleted morkeys which had been treated with the neurotoxin MPTP. Striatal cells were immunoreactive for the vector-encoded TH after stereotactic injection for periods up to 134 days, with biochem. effects consistent with dopamine biosynthetic enzyme expression. A subsequent expt. was carried out in six more severely depleted and parkinsonian monkeys. Several Th/aado-treated morkeys showed elevated levels of dopamine near injection tracts after 2.5 mo. Two morkeys that received a .beta.-galactosidase expressing vector showed no change in striatal dopamine. Behavioral changes could not be statistically related to the vector treatment groups. Toxicity was limited to transient fever in several animals and severe hyperactivity in one animal in the first days after injection with no assocd. Nistol. evidence of inflammation. This study shows the successful transfection of primate neurons over a period up to 2.5 mo with suggestive evidence of blochem, phenotype effects and without significant toxicity. While supporting the tiple of an in vivo gene therapy for Parkinson's disease, more consistent and longer lasting blochem. and behavioral effects will be necessary to establish the feasibility of this approach in a primate model of parkinsonism.
      RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
      L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2003 ACS
AN 1998:89371 CAPLUS .
DN 128:150403
                      Construction of retroviral vectors for delivering viral and oncogenic
                      inhibitors
Raybak, Susanna M.; Cara, Andrea; Gusella, Gabriele Luca; Newton, Dianne
   Cara, Andrea; Gusella, Gabriele Luca; Newton, Dianne L.

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CRT 1

PATENT NO. WIND DATE
                     PATENT NO. KIND DATE
                                                                                                                                                                                                       APPLICATION NO. DATE
                   WO 9803669 A2 19880129 WO 1997-US12637 19970717 <--
WO 9803669 A3 19980226

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, IS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9738049 A1 19890210 AU 1997-38049 19970717 <--
AU 9738049 B2 20010628

EP 917585 A2 19990528 EP 1997-935014 19970717 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
EP 917585 A2 19990528 EP 1997-935014 19970717 <-
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
PRAI US 1998-22052P P 19980722
W0 1997-US 12837 W 19970717
AB Cell transformation vectors for inhibiting HIV and tumor growth are provided. Optionally, the vectors encode RivAses A superfamily members such as eosinophil-derived neurotoxin (EDN) and onconase. Cells transduced by the vectors and methods of transforming cells (in vitro and in vivo) using the vectors are also provided. The viral and oncogene inhibitors are typically linked to a promoter such as retroviral HIV LTR promoters, the CMV promoter, the probasin promoter, and tetracycline-ceponsive promoters. The method is exemplified by construction of a ""viral" "vector" contg. a HIV Rev-responsive element, an encephalomyoccarditis virus internal ribosome entry site, a first viral inhibitor subsequence (for immunodominant proteins such as as Tat, Gag, or Rev.), splice donor site subsequence, splice acceptor site subsequence, the above mentioned promoter, and the EDN coding sequence. The vector may be packaged in a liposome and its contents transduced into CD34+ hematopoietic stem cells, CD4+ cells, and transferrin receptor+ cells. Claimed vectors include pBAR, pBAR-ONC, and pBAR-EDN.
   L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2003 ACS
AN 1998:15859 CAPLUS
DN 128:85136
T Construction of adenoviral gene vectors for mammalian cells
IN Perricaudet, Michel; Yeh, Patrice; Leblois-Prehaud, Helene
PA Rhone-Poulene Rorer S.A., Fr.; Perricaudet, Michel; Yeh, Patrice;
Leblois-Prehaud, Helene
C DCT Let Apol 56 no.
   Leblois-Prehaud, Heler
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1
                   PATENT NO. KIND DATE
                                                                                                                                                                                                  APPLICATION NO. DATE
                   WO 9747757 A1 19971218 WO 1997-FR914 19970523 <-
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS,
JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO,
                JP, KP, KR, LC, LK, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, KW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

FR 2749857 A1 19971219 FR 1998-7273 19980912 <--
FR 2749857 B1 19980914

CA 2257916 A1 19971218 CA 1997-2257916 19970523 <--
AU 723042 B2 20001109

EP 908443 A1 19990407 EP 1997-925133 19970523 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LI, NI, SE, PT, IF
                           P 906443 A1 18990407 EP 1997-925133 19970523 <-- R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
                   SI, FI
BR 9709700
SI, FI
BR 9709700 A 19990810 BR 1997-9700 19970523 <-
JP 2000511779 T2 20000912 JP 1998-501269 19970523 <-
NO 9805739 A 19981208 NO 1998-50739 19981208 <-
KR 2000016524 A 20000325 KR 1998-710112 19981210 <-
PRAI FR 1998-7273 A 19990812
WO 1997-FR814 W 19970523
AB The Invertion discloses circular and replicating DNA mols., useful in gene therapy, as well as a particularly efficient method for generating them in situ from a mutant adenovirus-derived vector. The adenovirus carries a
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deletion mutation in the E1 gene. The DNA sequences carried by the adenoviral vectors are a gene of interest, replication origins from viruses such as the Epstein-Barr virus (EBV) and papillomavirus, ARS sequences, and an inducible promoter controlling the Cre recombinase gene. The promoter is derived from mouse mammary tumor virus and is inducible by dexamethason or tetracycleine. The viral replication origin regions are dependent on site-specific recombination. The viral vectors also contain inverted repeat sequences from the P1 phage loxP region which are responsive to Cre recombinase. The method is exemplified by constructing a ***Viral**** **Vector*** contg. the EBV EBNA1 gene and oriP region, a mammatian celf-functional gene promoter, and the ***IRES*** genetic element from encephalomyocardibs virus.

L3 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2003 ACS AN 1998:567287 CAPLUS DN 125:187592

- TI RNA virus vector and helper virus or cell line for gene cloning, vaccine development, and neoplasm and inflammation inhibitor recombinant
- production
 Mertelsmann, Roland; Rosenthal, Felicia; Kalden, Joachim; Bertling, Wolf; Lindemann, Nosent, Rosentnal, Felicia; Naidén, Joachim; B Lindemann, Albrecht; Kufmburg, Peter, Veelken, Hendrik PA Lidnikum der Albert-Ludwigs-Universitaet Freiburg, Germany SO Ger. Offen, 11 pp. CODEN: GWXXBX

DT Patent LA German FAN.CNT 1

PATENT NO.

KIND DATE APPLICATION NO. DATE

PI DE 19503082 A1 19960808 DE 1995-19503082 19950201 <-- WO 9623889 A1 19960808 WO 1998-EP334 19960129 <- W. AU, BR, CA, CN, JP, KR, RU, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9652598 A1 19960821 AU 1996-52598 19960129 <- EP 804598 A1 19971105 EP 1996-900980 19960129 <- R: AT, BE, CH, DE, FR, GB, IT, LI, NL
S 6255104 B1 20010703 US 1998-894170 19980512
PRAI DE 1995-19503082 A 19950201
WO 1996-EP334 W 19960129
AB RNA vincy vectors in consunction with helper viruses or helper cell lines

- WO 1996-EP334 W 19960129

 AB RNA virus vectors in conjunction with helper viruses or helper cell lines are useful for gene cloring. Recombinant neoplasm inhibitors and inflammation inhibitors can be producted by this method. Vaccine development is another application. An example is poliovirus interteukin-2 gene expression in tumor treatment. The EMC ***IRES*** element was used in the poliovirus vector. Another example is human gene fas expression using a ***viral*** ***vector*** to induce cell type-specific apoptosis.
- L3 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2003 ACS AN 1993:206917 CAPLUS

DN 118:206917

- DN 118:206917

 II Characterization of a bicistronic retroviral vector composed of the swine vesicular disease virus internal ribosome entry site
 AU Chen, Bing Fang; Hwang, Lih Hwa; Chen, Ding Shinn
 CS Coll, Med., Natl, Taiwan, Univ., Taipei, Taiwan
 SO Journal of Virology (***1993***), 67(4), 2142-8
 CODEN: JOVIAM; ISSN: 0022-5385

OT Journal A English B The 5' nontranslated region (NTR) from the genome of swine vesicular disease virus (SVDV), a member of the family Picornaviridae, was cloned and used to construct a bicistronic retroviral vector. The vector is characterized by coexpression of 2 genes from a single transcript. Inclusion of the 5' NTR of SVDV did not negate the ""-Viral" ""vector" titer. Protein anal. Indicated that the 5' NTR could efficiently direct internal initiation, thus allowing the downstream gene to be translated. Translation of the internally initiated porcine growth hormone gene was at the upstream position in Ntl 3' cells but was about equiv. to that in Het.a cells, implying that some cellular factors that stimulated internal initiation of the SVDV 5' NTR are present in Het.a cells. However, in G418-selected clones, the Neor-encoding gene was expressed with equiv. efficiency either at a downstream position or at an upstream position in either NIH 3'T3 or Het.a cells. Compared with the conventional double-gene vector or the U3-based vector, the bicistronic vector coexpressed 2 genes much more efficiently, owing to elimination or promoter interference. Furthermore, this type of vector infected and expressed the target genes efficiently in 2 primary cell lines, rat embryo and human skin fibroblast cells, that were tested. These expit. data suggests a better design for the retroviral vector and provide evidence that internal initiation of the SVDV 5' NTR was stimulated

=> d his

(FILE 'HOME' ENTERED AT 17:17:50 ON 20 FEB 2003)

FILE 'BIOSIS, EMBASE, CAPLUS' ENTERED AT 17:18:32 ON 20 FEB 2003 40 S IRES AND VIRAL VECTOR 2 20 DUP REM L1 (11 DUPLICATES REMOVED) 14 S L2 AND PY-22001

=> s IRES and retrovir? L4 505 IRES AND RETROVIR?

=> s I4 and py<2001 1 FILES SEARCHED... L5 324 L4 AND PY<2001

- L5 ANSWER 1 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. AN 2002:425400 BIOSIS

- AN 2002:425400 BIOSIS
 DN PREV200200425400
 T Rous sarcoma virus translation revisited: Characterization of an internal ribosome entry segment in the 5' leader of the genomic RNA.
 AU Deffaud, Clarence; Oaris, Jean-Luc (1)
 CS (1) LaboRetro, Unite de Virologie Humaine, Institut National de la Sante et de la Recherche Medicale, Ecole Normale Superieure de Lyon, 46 Allee d' Italie, No. 412, 69364, Lyon Cedex OT. Jean-Luc Jaris/@ens-yon, fir France SO Journal of Virology, (****December, 2000*****) Vol. 74, No. 24, pp.

- 11581-11588, http://intl-jvi.asm.org/, print. ISSN: 0022-538X. DT Article

- ISSN: 0022-538X.

 DT Article

 LA English

 AB The 5' leader of Rous sarcoma virus (RSV) genomic RNA and of
 "retroviruses*** in general is long and contains stable secondary
 structures that are critical in the early and late steps of virus
 replication such as RNA dimerization and packaging and in the process of
 reverse transcription. The initiation of RSV Gag translation has been
 reported to be 5' cap dependent and controlled by three short open reading
 frames located in the 380-nucleotide leader upstream of the Gag start
 codon. Translation of RSV Gag would thus differ from that prevailing in
 other "*retroviruses*** such as murine leukemia virus,
 reticutoendotheliosis virus type A, and simal internal ribosome entry segment (***(RES****) in the 5' end of
 the genomic RNA directs efficient Gag expression desplie stable 5'
 secondary structures. This prompted us to investigate whether RSV Gag
 translation might be controlled by an "**IRES**** -dependent mechanism.
 The results show that the 5' leaders of RSV and v-Src RNA exhibit
 IRES* properties, since these viral elements can promote efficient
 translation of monocistroic RNAs in conditions inhibiting 5'
 cap-dependent translation. When inserted between two cistrons in a
 canonical bicistronic construct, both the RSV and v-Src leaders promote
 expression of the 3' cistron. A genetic analysis of the RSV leader allowed
 the identification of two nonoverlapping 5' and 3' leader domains with

 IRES* activity. In addition, the v-Src leader was found to contain
 unique 3' sequences promoting an efficient reinitiation of translation.
 Taken together, these data lead us to propose a new model for RSV
 translation.

- L5 ANSWER 2 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. AN 2001;322188 BIOSIS
- DN PREV200100322188
 TI Restoration of WASP-deficient T-cell signaling defects in mice upon transplantation of ***retrovirally*** transduced hematopoietic stem
- Cels.;
 AU Klein, Christoph (1); Nguyen, Deanna; Liu, Ching-Hui; Rosen, Fred S.; Alt, Fred W.; Mulligan, Richard C.; Snapper, Scott B.
 CS (1) Pediatric Hematology/Oncology, Medical School Hannover, Hannover
- Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 591a. print.

 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
 San Francisco, California, USA December 01-05, 2000 American Society of Hematology
 ISSN: 0006-4971.
 DT Conference
 LA English
 SL English

- OT Conference
 LA English
 SL Engli

- ANSWER 3 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- AN 2001:317213 BIOSIS DN PREV200100317213
- Protection of mice from methotrexate and cyclophosphamide induced myelotoxicity by human aldehyde-dehydrogenase and mutated dihydrofotate reductase CDN gene transfer.

 Takebe, Naoko (1); Zhao, Shi-Cheng; Banerjee, Debabrata; Bertino, Joseph
- CS (1) Medicine, University of Maryland, Baltimore, MD USA SO Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 799a.
- print.
 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
 San Francisco, California, USA December 01-05, 2000 American Society of Hematology . ISSN: 0006-4971,

- OT Conference
 LA English
 SL English
 AB The genetic transfer of drug-resistance to hematopoietic cells is an attractive approach to overcome myelosuppression caused by high dose chemotherapy. Because cyclophosphamide (CTX) and methodrexate (MTX) are chemointerapy. Bocause cyclophosphamide (C1X) and methotrexate (M1X) are commonly used non-cross resistant drugs, generation of dual drug-resistance in hematopoietic cells may allow an increase in dose intensity. We have previously reported in vitro mouse bone marrow progenitor cell protection from 4-hydroxycyclophosphamide (4HC) and methotrexate (MTX) by "retroviral"" gene transfer of human cytosolic class-1 aldehyde-dehydrogenase (ALDH-1) cDNA and a mutated human

dihydrofolate reductase (DHFR; Phe22/Ser31=F/S) gene transfer using SFG based bicistronic MoMLV ***retroviral*** vector, SGF-ALDH ****IRES****
-F/S (Takebe N. et al. Blood abstract 554a, 1997). Lethally irradiated mice transplanted with gpAM12-SFG-ALDH ***IRES***-F/S or mock transduced bone marrow cells were treated with high dose pulse cyclophosphamide (CTX), 200mg/kg daily X 3 or high dose CTX/MTX, 150 mg/kg and 300mg/kg weekly X 2. Animals receiving mock transduced marrow died from CTX and MTX toxicity, whereas mice transplanted with ALDH-1 and mutated DHFR cDNA containing marrow were able to blerate pulse CTX or weekly CTX/MTX treatment post-transplant. Mice transplanted with transduced marrow and treated with high dose MTX/CTX or high dose CTX alone showed peripheral blood count recovery and maintained their weight, while control mice did not show any blood count recovery and developed weight loss. Genomic DNA from day 11 CFLH-S and bone marrow showed evidence of human ALDH-1 cDNA integration by PCR. These data indicate that overexpression of ALDH-1 and mutated DHFR sufficiently induced both 4HC/CTX and MTX resistance in the in vivor mouse model and points to the potential usefulness of this construct to protect patients, requiring high dose CTX and MTX, from myelosuppression.

- L5 ANSWER 4 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- 2001:313997 BIOSIS PREV200100313997
- DN PREV200100313997
 Il Sustained and high level transgene expression in human hematopoietic stem cells transduced by an MSCV/HIV hybrid lentiviral vector.
 AU Gao, Zhigang (1); Golob, Jonathan (1); Hawley, Robert G.; Tanavde, Vivek M. (1); Ckvin, Curt L. (1); Cheng, Linzhao (1)
 CS (1) Johns Hopkins Oncology Certer, Baltimore, MD USA
 Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 429a.
- - print.
 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
 San Francisco, California, USA December 01-05, 2000 American Society of Hematology . ISSN: 0008-4971.

- . ISSN: 0008-4971.

 DT Conference
 L. English
 St. English
 St. English
 AB Oncoretroviral vectors have been used extensively in attempts to transduce human hematopoietic stem-progenitor cells (HSC). We and others have reported that murine stem cell virus (MSCV)-based oncoretroviral vectors transduced HSC efficiently. Lentiviral vectors based on human HIV-1 have been developed recently to transduce HSC. Although high-titer HIV-1 derived vectors have been produced, concerns exist regarding the stability and level of transgene expression that can be achieved following transduction of human HSC. We therefore constructed novel lentivirus vectors which are based on HIV-1 and MSCV. In this study, we present the results obtained with one of the hybrid vectors, PHR-GIh-MUJ, in which the U3 region of the HIV LTR was replaced by the U3 region of the MSCV LTR (MU3). For comparison, we also used an oncoretroviral vector, MGIN, containing an identical reporter gene cassette (GFP. —**RES**—NeoR) controlled by the MSCV LTR. Both vectors directed efficient transgene expression in various human cell lines, indicating that the MU3 enhancer/promoter functioned in the context of the lentiviral backbone. Human cord blood CD34+ cells that had been cultured for 24 hrs in the presence of thrombopoietin, Kit ligand and FR-3 ligand were transduced hideo over 48 hrs with either vector at similar MDI by the spinoculation procedure. FACS analyses and in vitro CFC assays showed that CD34+ cells were transduced by the oncoretroviral and the lentiviral vector at a similar level. To examine transgene expression in the in vivo progeny of transduced human CD34+ cells, the NOD/SCID-transplant assay was used. We observed that 21-40% of the human cells in the bone marrow of NOD/SCID mice expressed the GFP gene introduced by the pHR-GiN-MU3 vector, up to 4 months after transplant. High level GFP expression was observed in both lymphoid, erythroid and myeloid cells. In contrast, low percentages of engrafted human cells expressed of PFP prom the MGIN vect
- L5 ANSWER 5 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- ***Retrovirus*** -mediated expression of the base excision repair protein, FPG, protects hematopoietic cells from thiotepa-induced toxicity
- AU Kobune, M. (1); Xu, Y. (1); Baum, C.; Kelley, M. R. (1); Williams, D. A. CS (1) Pediatrics, Indiana University School of Medicine, Indianapolis, IN USA
- SO Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 481a. print.

 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
 San Francisco, California, USA December 01-05, 2000 American Society of Hematology . ISSN: 0008-4971. Conference

- ISSN: 0006-4971.

 OT Contrerence

 LA English

 St. English

were also significantly higher (spieen 88.9+/-18.9 X 108 vs 31.1+/-9.5 X 108, p<0.01; thymus 9.5+/-5.9 X 105 vs 1.5+/-1.0 X 108, FPG vs CN, respectively, p<0.05). Selective pressure was also demonstrated by an increase in the proportion of EGPP bright* cells after TT. Mean fluorescence intensity (MFI) of peripheral mononuclear cells (PBMC) of FPG group was increased after 1 cycle of TT treatment compared with pretreatment MFI (1052+/-747 vs 523+/-205, p<0.05), while the MFI of CN and non-treated FPG mice were not changed. These results show that expression of the Fpg protein protects hematopoletic cells from TT-induced DNA damage and 8M cells highly expressing bacterial Fpg selectively survive during TT in vivo treatment. Fpg may provide a novel approach to preventing TT-induced toxicity of primary hematopoletic cells.

- L5 ANSWER 8 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. AN 2001:311927 BIOSIS
- PREV200100311927

- DN PREVZ00100311927

 If Myeloma cells homing to the bone marrow is directed by CXCR4/SDF-1 interactions.

 AU Woodiff, Jeffrey E. (1); Engel, Barbara C.; Epstein, Joshua (1)

 CS (1) Myeloma and Transplantation Research Center, University of Arkansas for Medical Sciences, Little Rock, AR USA

 SO Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 550a.
- print.
 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
 San Francisco, California, USA December 01-05, 2000 American Society of Hematology . ISSN: 0006-4971. DT Conference LA English SL English

- DT Conference

 LA English

 AB Multiple Myeloma is characterized by malignant plasma cell infiltration throughout the bone marrow, resulting in lytic bone lesions, a devastating manifestation of this disease. The mechanism controlling myeloma cells homing to the bone marrow have not been elucidated. We have previously reported that primary myeloma cells express the chemokine receptor CXCR4 and migrate in vitro in response to list ligand SDF-1. To further determine whether this mechanism is responsible for active myeloma cell homing to the bone marrow in vivo, we investigated the dissemination of myeloma cells engineered to differentially express CXCR4 in SCID mice. ARP-1 cells, a cell line established from the bone marrow of a myeloma patient, express low levels of CXCR4. ARP-11 cells were transfected with CXCR4 to generate stable transfectants (Arp-1X), with constitutive expression 20 fold higher than that of parental cells. To reduce endogenous expression and to minimize the effect of in vivo induction of CXCR4 expression seen in prefiningary experiments, Arp-1 cells were also transduced with the "retroviral" SDF-1 intrakine vector MND-SDF-KDEL "IRES** -eGFP (MSKIE). SCID mice were inoculated intravenously with Arp-1X or Arp-IneoMSKIE cells. When tumor developed, the presence of tumor cells in the different organs was determined using CD38/CD45 (for ARP-1X) or GFP flow cytometry (for Arp-IneoMSKIE). All mice injected with Arp-IneoMSKIE cells had tumor cells in their femurs (11.9%+-2.1) and in their vertebrae (25.3%+-28.7). In contrast, only two of the 5 mice injected with Arp-IneoMSKIE cells had tumor cells in the femur (0.08% and 0.01%), one of these as las had 0.1% tumor cells in its vertebrae. The difference between the two groups in bone marrow plasmacytosis was statistically significant (p=0.02). These results demonstrate unequivocally that CXCR4 directs active migration of myeloma cell towards the bone marrow

- ANSWER 7 OF 324 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

- 2001:311903 BIOSIS
 PREVZ0010031903
 BIOSIS
 PREVZ0010031903
 BCR-ABL induces normal erythropolesis in the absence of JAK2.
 Ghaffari, Saghi (1); Kitidis, Claire (1); Neubauer, Hans; Pfeffer, Klaus; ΑU Lodish, Harvey (1)
 CS (1) Writehead Institute, Cambridge, MA USA
 SO Blood, (***November 16, 2000***) Vol. 96, No. 11 Part 1, pp. 538a.
- Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hernatology . ISSN: 0006-4971. DT Article; Conference LA English

ISSN: 0006-4971.

ISSN: 0006-4971.

I Article; Conference
A English
B. We have shown previously that the constitutively active tyrosine kinase
BCR-ABL oncoprotein (P210) induces red cell formation in EpoR-/- fetal
liver cells (FLC). JAK2 is an integral component of EpoR where it
initiates the stimulation of downstream signaling pathways. JAK2 function
is crucial for definitive erythropoiesis, as JAK2-deficient mice die from
fetal anemia by embryonic day 12 or 13, similar to EpoR-/- mice; however,
JAK2-/- embryos suffer from a more severe defect. We have found JAK2 to be
constitutively phosphorylated in the crythroleukemic HCD57 cell line
expressing P210 JAK2 phosphorylation is increased significantly upon Epo
stimulation in HCDP210 cells as compared to the parental HCD57 cells. We
find JAK2 to be also constitutively phosphorylated in primary FLC
"retrovirally" expressing BCR-ABL (P210). We sought to determine
whether JAK2 is required for red cell formation by P210. Using a
bioistronic MSCV. ""IRES"—GFP vector, we generated high titer
"retrovirally" supermatants to transduce day12 JAK2-/- FLC to express
either P210, JAK2, or an empty vector. The cells were cultured in the
presence of Steel factor (SF) and IL-8, and two days post-infection, GFP+
FLC were analyzed for their frequency of cells expressing the red cell
marker Tert 19. GFP JAK2-FLC infected with P210 generated as many
Tert 19+ cells as the ones infected with JAK2 and cultured in the presence
of Epo-SF-II-8. In addition, GFP+FII-9. FLC were selectively sorted and
plated in methylicellulose in the presence of either SF-II-8 (P210-infected
cells) or SF-II-8-Epo (JAK2 or confrol vector) and BFUE colonies counted
after 9 days. In the absence of Epo signaling, P210-infected cells or
GPA-SF-II-8-Epo (JAK2 or confrol vector) and BFUE colonies counted
after 9 days. In the presence of Epo signaling, P210-infected cells or
JAK2-generated as many BFUE colonies as the ones infected with JAK2 and
cultured in the presence of Epo. However, the presence of at least SF

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MRNAs containing the unstructured 5' leader sequence of alfalfa mosaic virus RNA 4 translate inefficiently in lysates from poliovirus-infected

virus RNA 4 translate inemiciently in lysates from poliovirus-HeLa cells.

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AP Poliovirus infection is accompanied by translational control that precludes translation of 5'-capped mRNAs and facilitates translation of the uncapped poliovirus RNA by an internal initiation mechanism. Previous reports have suggested that the capped affalfa mosaic virus ""coat" "protein*" mRNA (AIMV ""CP" RNA), which contains an unstructured 5' leader sequence, is unusual in being functionally active in extracts prepared from poliovirus-infected HeLa cells (P)-extracts). To identify the cis-acting nuclecidide elements permitting selective AIMV ""CP" expression, we tested capped mRNAs containing structured or unstructured 5' leader sequences in addition to an mRNA containing the poliovirus internal ribosome entry site (""IRES"*). Translations were performed with PI-extracts and extracts prepared from mock-infected HeLa cells (MI-extracts). A number of control criteria demonstrated that the HeLa cells (MI-extracts). A number of control criteria demonstrated that the HeLa cells were infected by poliovirus and that the extracts were translationally active. The data strongly indicate that translation of RNAs lacking an internal ribosome entry site, including AIMV ""CP"*
RNA sa severely compromised in PI-extracts, and we find no evidence that the unstructured AIMV ""CP"* RNA 5' leader sequence acts in cis to bypass the poliovirus translational control. Nevertheless, cortanslation assays in the MI-extracts demonstrate that mRNAs containing the unstructured AIMV ""CP"* RNA 5' leader sequence acts in cis to bypass the poliovirus translational control. Nevertheless, cortanslation assays in the MI-extracts demonstrate that mRNAs containing the unstructured AIMV ""CP"* RNA 5' untranslated region have a competitive advantage over those containing the rabbit alpha-globin 5' leader. Previous reports of AIMV ""CP"* RNA furnaslation in PI-extracts kileyl describe inefficient expression that can be explained by residual ca

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